



Office of
Environment
& Heritage

BioNet Web Services

**NSW Landscapes Web Service Data Standard
version 1**

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Introduction

The BioNet NSW Landscapes Web Service provides an open Application Programming Interface (API) to enable IT (information technology) application developers to integrate Mitchell Landscapes data held in the [Vegetation Information System \(VIS\) Classification](#) database with software applications. The scope of applications of this open data initiative spans the full breadth of potential uses, from mobile apps through to organisational decision-management business systems.

The web service does not replace the existing VIS Classification User Interface, as it is intended for use by software applications, not as a user interface. To this end, not all data held in the VIS Classification database are made available via the web service. Legacy data will not be carried via the web service but will remain available via the existing web-based [VIS Classification 2.1 user interface](#).

This document provides detailed information on the Mitchell Landscapes data available via the BioNet NSW Landscapes Web Service. It will enable potential users of the web service to evaluate whether the service will meet their data needs.

To ensure that this version of the data standard applies to the web service, please check [https://data.bionet.nsw.gov.au/biosvcapp/odata/\\$metadata](https://data.bionet.nsw.gov.au/biosvcapp/odata/$metadata) and confirm that the version of this document aligns with the value in 'bioNet:dataStandardVersion' for 'EntitySetName=NSWLandscapes_MitchellLandscapes' (see Figure 1).

```
<EntitySet Name="NSWLandscapes_MitchellLandscapes"
  EntityType="BioSvcApp.Models.vwCUBE_VegClassificationMitchellLandscapes"
  bioNet:bioNetOpenAPIVersion="1.1" bioNet:dataStandardVersion="1.0"
  bioNet:dateLastBulkUpdate="30/05/2016"/>
```

Figure 1: Metadata output

Overview of the web service and standard

The BioNet NSW Landscapes Web Service is based on OASIS Open Data (OData) v4.0. OData provides a standardised RESTful (REpresentational State Transfer) protocol for querying and retrieving data and is already in use for the BioNet Species Sightings Web Service. The following links will give you more background on the OData protocol:

- [Unlock your data with OData](#) – a short high-level explanatory video
- [What is the OData Protocol?](#) – a short, more technical explanation of the protocol
- [OASIS Open Data Protocol \(OData\) TC](#) – the OASIS standard specification details
- [OData](#) - the OData community website.

OData makes data available via 'entity sets'. These can be thought of as tables of data – very much like a sheet within a spreadsheet. For the NSW Landscapes Web Service there is one entity set available (see Figure 2).

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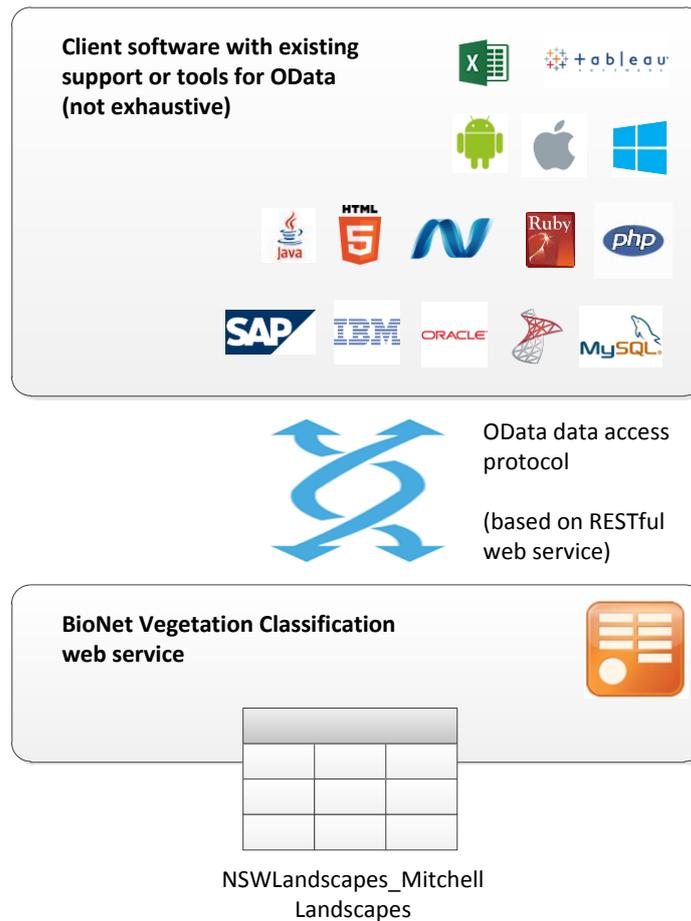


Figure 2: Conceptual overview of data exposure via the OData-based BioNet NSW Landscapes Web Service

Within the NSWLandscapes_MitchellLandscapes dataset two categories of data are shared (Figure 3). Full details of all data fields within the categories are given in the next section.

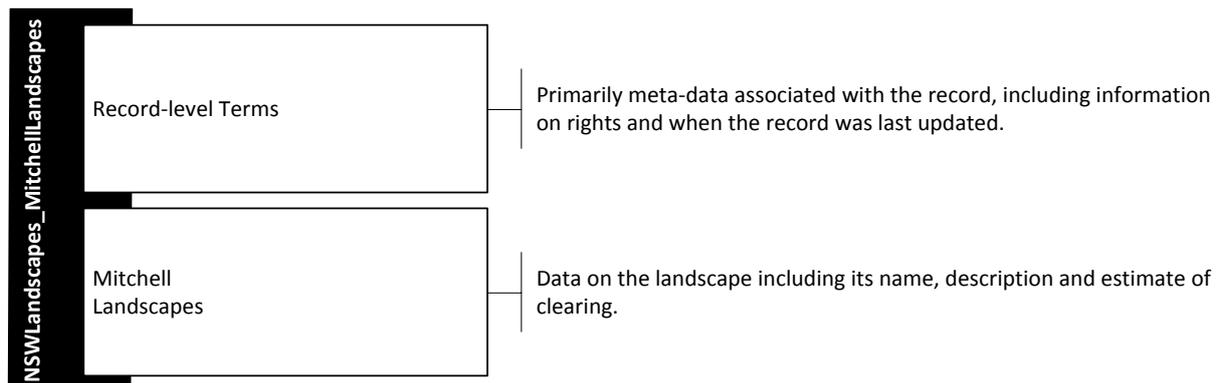


Figure 3: Overview of the categories of data shared via the NSWLandscapes_MitchellLandscapes entity set.

Specifications for the NSWLandscapes_MitchellLandscapes dataset

The tables below list the exact specifications of the data fields available within the Record-level Terms category and the Mitchell Landscapes category.

Data fields used in the Record-level Terms category

Field name	Occurrence	Definition	Example	Data type
collectionCode	1	The name, acronym, coden, or initialism identifying the collection or dataset from which the record was derived. This will always be 'BioNet NSW Landscapes'.	'BioNet NSW Landscapes'	VARCHAR (50)
datasetName	1	The name identifying the dataset from which the record was derived. This will always be 'Mitchell Landscapes'.	'Mitchell Landscapes'	VARCHAR (100)
dcterms_bibliographic Citation	1	A bibliographic reference for the resource, as a statement indicating how this record should be cited (attributed) when used. This reference will be formatted as follows: 'BioNet NSW Landscapes <current date> <HH:MM> <AM/PM> + <HH:MM offset from UTC>'. Note: the date and time are Australian Eastern Standard Time adjusted for daylight saving. They reflect the date and time when the web service data were last refreshed from the source data (VIS Classification).	'BioNet NSW Landscapes 22/08/2014 12:47 AM + 10:00'	VARCHAR (50)
dcterms_language	1	The language of the resource, based on RFC 4646 [RFC4646].	'en'	VARCHAR (3)
dcterms_modified	1	The most recent date and time when the resource was changed, based on ISO 8601:2004(E). Note: The date modified relates to any change made in the source system (VIS: Classification). It is thus possible that the date modified is updated but no actual changes are carried through into the data fields presented via the web service.	'15/03/2011 4:42:29 PM +11:00'	VARCHAR (50)
dcterms_rights	1	Information about rights held in and over the resource. Typically, rights information includes a statement about various property rights associated with the resource, including intellectual property rights.	'Creative Commons by Attribution'	VARCHAR (300)

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Data fields used in the Record-level Terms category *continued*

Field name	Occurrence	Definition	Example	Data type
dcterms_rightsHolder	1	The person or organization owning or managing the rights over the resource.	'NSW Office of Environment and Heritage'	VARCHAR (150)
dcterms_type	1	The nature or genre of the resource. In this case it will always be 'dataset'.	'dataset'	
institutionCode	1	The name (or acronym) in use by the institution having custody of the object(s) or information referred to in the record.	'NSW Office of Environment and Heritage'	VARCHAR (200)

VARCHAR, variable character field; VIS, Vegetation Information System

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Data fields used in the Mitchell Landscapes category

Field name	Occurrence	Definition	Example	Data type
landscapeID	1	The unique identifier within the source VIS Classification database for the Mitchell landscape.	'1101'	INT
landscapeName	1	The name of the Mitchell landscape ¹	'Adelong Granite Ranges'	VARCHAR (200)
landscapeDescription	0-1	A free text description of the geology, geography and broad vegetation associated with the landscape.	'Steep hills and peaks on and Silurian gneissic granite and Devonian massive granite, general elevation 500m to 760m, local relief 200m. Coarse loamy sand between rock outcrops and in crevices, then gritty gradational profiles developing to yellow harsh texture-contrast soils on lower slopes. Forests of yellow box (<i>Eucalyptus melliodora</i>), red stringybark (<i>Eucalyptus macrorhyncha</i>), brittle gum (<i>Eucalyptus mannifera</i>), black cypress pine (<i>Callitris endlicheri</i>) and white gum (<i>Eucalyptus rossii</i>).'	VARCHAR (MAX)

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Data fields used in the Mitchell Landscapes category *continued*

Field name	Occurrence	Definition	Example	Data Type
totalAreaOfNSW Landscape	1	The total area of land occupied by the landscape, based on version 2 of the line work, expressed in hectares (ha).	'33694.38'	DECIMAL (10,2)
percentClearedEstimate OfLandscape	1	An estimate of the cover of native vegetation within the landscape, expressed as a percentage of the total area of the landscape and based on the best available information, including mapping, modelling and/or expert advice. The percentage cleared is given as a decimal, 0.82 = 82%. Where no information is available, 'null' is given	'0.82'	DECIMAL (10,2)
statusOfLandscape ClearingEstimate	0–1	The approval status of the percentage cleared estimate, as determined by the Plant Community Type Change Control Panel approval process. Uses the following controlled vocabulary: <ul style="list-style-type: none"> • Approved • Pending • Draft. 	'Draft'	VARCHAR (50)

¹ NSW Department of Environment and Conservation (ed.) 2006, *Atlas of NSW Landscapes: the Mitchell Landscapes*. Department of Environment and Conservation, Sydney South
INT, integer; VARCHAR, variable character field; VIS, Vegetation Information System